

CLAIMS

1. A semiautomatic electronic printer, comprising a housing (2) that can be positioned on the surface of a medium to be printed and remain stationary during a print sequence, a large push-button (3) located in the upper part of the housing (2) and movable with respect to same housing (2), a print head (8) being provided with proper printing means and positioned inside the housing (2), and electronic control means disposed in the housing (2) and adapted to acquire data to be printed from a separated computer and to store such data, as well as adapted to control the operation of the print head (8), characterised in that the semiautomatic electronic printer comprises, as a moving unit (5) inside the housing (2):
  - a push-button (3);
  - at least a switch (15, 16) for controlling the printing, disposed on said moving unit (5) and activated by the movement of the moving unit with respect to the housing (2);
  - a frame (7), being rigidly connected to said push-button (3) and mounted, in a spring-charged relationship, inside said housing (2) in such a manner to be vertically movable between two positions, the one being upper or rest position and the other being lower or work position, such lower position being reached and maintained at least for the time necessary to execute the printing operation;
  - a powered carriage (20), sustained, in its upper part, by said frame (7) and adapted to transport a print head (8) for a predefined printing travel, and controlled by electronic control means;
  - a print head (8), rigidly connected to said carriage (20) with its printing means being disposed in the lower part and brought to touch said medium to be printed in the printing operation; and

- a printed circuit board (6) sustained in its upper part by said frame (7), including said electronic control means.

2. A printer according to claim 1, characterised in that on said push-button (3) a manual force can be exerted against the bias of counteracting springs (11), abutted 5 between the frame (7) and a support rigidly connected to the housing (2), which, without such a force, bring the push-button (3) and all the moving unit (5) associated thereto in the rest position.

3. A printer according to claim 1, characterised in that on said printed circuit board (6) at least an electromagnet (37) is provided able to exert a balanced force against the 10 bias of counteracting springs (11), abutted between the frame (7) and a support rigidly connected to the housing (2), which, without such a force, bring the push-button (3) and all the moving unit (5) associated thereto in the rest position.

4. A printer according to claim 1, characterised in that said carriage (20) is mounted movable to said frame (7) through horizontal sliding couplings by means of a powered 15 operation group (18, 19).

5. A printer according to claim 4, characterised in that said powered operation group (18, 19) comprises a worm screw transmission (19), the nut screw (21) being connected to said carriage (20).

6. A printer according to claim 1, characterised in that at least one sensor is mounted 20 on said printed circuit board (6) as a reference of a initial position of the carriage (20).

7. A printer according to claim 1, characterised in that the print head (8) is provided of its own ink feeder cartridge (26).

8. A printer according to claim 7, characterised in that on the printed circuit board (6) there is a sensor able to detect the presence of said cartridge (26).

9. A printer according to claim 1, characterised in that said push-button (3) is made of a semitransparent material adapted to the transmission of light indications from displays located on the printed circuit board (6).
10. A printer according to claim 1, characterised in that a gripping handle (35) of the 5 printer projects from a side of said housing (2).
11. A printer according to claim 1, characterised in that an entrance (32) for a cable of connection with an electronic processing apparatus is provided on a side of said housing (2).
12. A printer according to claim 1, characterised in that said housing (2) has frontal 10 and lateral transparent windows (4) for watching the printing zone.
13. A printer according to claim 1, characterised in that at least a light source (36) for illuminating the printing zone is underneath the printed circuit board (6), facing the printing zone.
14. A printer according to claim 1, characterised in that a horn (39) is provided on said 15 printed circuit board (6).
15. A printer according to claim 1, characterised in that an inclinometer (38) is provided on said printed circuit board (6) to check the working position of the printer.